

ISIS™ 3-CELL STARTER KIT

Part Number: ISIS3BOXZ



DESCRIPTION

Typical wiring harnesses can take up to 40 hours to install, with the new ISIS Intelligent Multiplexed System you can cut that time in half. Plus you don't have to have any sort of experience working with electrical systems to get it done. Just plug in the power cables, hook them up to your loads and the system tests itself to make sure everything is working.

If you have any problems just call our application engineering team to solve your problem by trouble shooting your system and walking you through the process step by step to make sure that you've got everything properly installed.

On top of ease of installation, race enthusiast will love the weight savings gained using our system. Less weight means more speed, less fuel consumption and improved handling. Who wouldn't want that?

Tuners and restorers will love the flexibility of the system. Whether you choose to replace your current electrical system or lay an ISIS kit over an existing system, you can program up to 20 circuits to control any electrical function.

SYSTEM FEATURES:

- Up to 25 different inputs on the MASTERCELL™ input unit (multiple inputs can control a single output)
- Up to 10 fuse protected outputs on the control unit. (each output rated at 25 amps. Single POWERCELL™ control unit can supply up to 125 Amps continuously.)
- Single MASTERCELL input unit can control up to 5 control units with up to 50 outputs (additional POWERCELL control units sold separately).
- All mating electrical interfaces use top-of-the-line Delphi Packard sealed connectors
- MASTERCELL AND POWERCELL enclosures sealed with watertight gaskets for high performance in all driving conditions.
- All enclosures feature clear covers for easy system status checks and a high-tech look to show off your system.
- Standard inSIGHT™ diagnostic module allows for instant checks of all circuit inputs and output for proper function (see inSIGHT data sheet for more info)
- ISIS Heartbeat LEDs to indicate system connectivity and indicate output status
- MASTERCELL input unit rated to 85°C environment
- POWERCELL control unit rated to 125°C environment
- All plastics used in enclosures are UL 94V0. Bases are glass reinforced high-temperature nylon for strength and temperature resistance. Covers are high-temperature polycarbonate for visibility and strength.
- All wires have high-temperature TXL insulation



INTELLIGENT MULTIPLEX SYSTEM

STANDARD SYSTEM ASSIGNMENTS—POWERCELL™ #1

- Switch Input 1: OPEN
- Switch Input 2: OPEN
- Switch Input 3: Ignition*
- Switch Input 4: Starter*
- Switch Input 5: Headlights
- Switch Input 6: Parking Lights
- Switch Input 7: High Beams
- Switch Input 8: OPEN
- Switch Input 9: Horn
- Switch Input 10: Fan Override-or-Open

* Not allowed when security is ON

STANDARD SYSTEM ASSIGNMENTS—POWERCELL™ #2

- Switch Input 11: Self-Canceling Left Turn Signal
- Switch Input 12: Self-Canceling Right Turn Signal
- Switch Input 13: 4-Way Flasher with Self-Canceling Turn Signals
- Switch Input 14: Brake Lights with Self-Canceling Turn Signals
- Switch Input 15: OPEN
- Switch Input 16: OPEN
- Switch Input 17: OPEN
- Switch Input 18: OPEN
- Switch Input 19: OPEN
- Switch Input 25: Brake Lights with 1-Filament Bulbs
- Switch Input 26: Left Turn Signal for 1-Filament Bulbs
- Switch Input 27: Right Turn Signal for 1-Filament Bulbs
- Switch Input 28: 4-Way Flasher for 1-Filament Bulbs
- Switch Input 29: Brake Lights with Multi-Filament Bulbs, Mechanical Column
- Switch Input 30: Left Turn Signal for Multi-Filament Bulbs, Mechanical Column
- Switch Input 31: Right Turn Signal for Multi-Filament Bulbs, Mechanical Column
- Switch Input 32: 4-Way Flasher for Multi-Filament Bulbs, Mechanical Column

EACH OUTPUT CAN BE CUSTOM PROGRAMMED TO:

- Track
- Toggle
- Delay
- Timed
- Soft-Start
- Pattern

Contact the factory for custom programming options.

KIT INCLUDES:

- 1 – ISIS MASTERCELL™ input unit
- 2 – ISIS POWERCELL™ control unit with 10 outputs
- 1 – Input harness with sealed connector
- 4 – Output harnesses with sealed connectors
- 1 – ISIS Y-CAN cable with sealed connectors on ends
- 1 – 1 ISIS™ inSIGHT™ Diagnostic Module
- 4 – Power Input cables
- 2 – Dummy power connectors
- 1 – Dummy input connector
- 1 – Dummy ISIS CAN connector



INTELLIGENT MULTIPLEX SYSTEM

TECHNICAL SPECIFICATIONS:

General

- Processor technology: CMOS - 16bit Digital Signal RISC Processor
- Communication protocols: full CAN 2.0b - proprietary data Protocol
- Maximum data rate on CAN bus: 1M bits/second
- Maximum length of Can bus Cable: 100 meters
- Maximum number of input/output nodes: 100's
- Maximum number of input nodes/ MASTERCELL™ input unit: 50 (expandable in groups of 50 with additional MASTERCELL units)
- In-vehicle programmable
- Standard node application library
- Enclosures and connectors sealed to IP67
- Standard Delphi Packard connectors & terminals
- All materials UL 94V0

MASTERCELL™ INPUT UNIT:

- Optional interface protocols: J1939
- Maximum number of input nodes: 50 (expandable in groups of 50)
- Input node interface: input signal is closed to ground
- Input switching voltage / current: 5-V / 0.0005-A
- Analog input nodes: 2
- Maximum frequency of input state change: 50 Hz
- Maximum temperature: 85°C

POWERCELL™ CONTROL UNIT:

- Dimensions: 2" x 6 7/16" x 7 3/16"
- Input voltage range: 6-14.2 VDC
- Maximum number of nodes: 10 (expandable in groups of 10 with additional POWERCELL units)
- Output node technology: MOSFET (up to 25 Amps)
- Output switch type: High-Side
- Pulse Width Modulation (PWM) nodes: 8
- Maximum temperature: 125°C
- Built-in diagnostics status indicators on all output nodes